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CLAIMS

What is claimed is:

- 1. An organic composition characterized by an absorbance/micrometer of < 1 at wavelengths from 140 to 260 nm, said composition comprising less than 20 parts per million of water, less than 90 ppm of oxygen, and one or more compounds selected from the group consisting of:
 - cyclic, linear, or branched hydrofluorocarbons having 2 to 10 carbon atoms in which there are more fluorines than hydrogen, no runs of adjacent C-H bonds longer than two (CH-CH), no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no -CH₂CH₃ radicals;
 - ii) X-R_f^a[OR_f^b]nOR_f^cY wherein X and Y can be hydrogen or fluorine and R_f^a, R_f^b, and R_f^c are 1 to 3 carbon fluorocarbon radicals, linear or branched

in which there are more fluorines than hydrogens, no runs of adjacent C-H bonds longer than two are present, no -CH₂CH₃ radicals are present and no sequences with hydrogen on both sides of an ether oxygen (CH-O-CH) are present;

- iii) C_nF_{2n-v+2}H_v wherein n = 2 to 10, v<n+1, the number of fluorines equals or exceeds the number of hydrogens, no runs of adjacent C-H bonds longer than two are present, no runs of adjacent C-F bonds longer than 6 are present, and no CH₂CH₃ radicals are present;
- iv) $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4;
- v) CF₃CH₂CF₂CH₃;
- vi) $F[CF(CF_3)CF_2O]_nCFHCF_3$ where n = 1 to 5;
- vii) $F[CF(CF_3)CF_2O]_nCF_2CF_3$ where n = 1 to 5;
- viii) $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8;
- ix) cyclic, linear, or branched hydrofluorocarbon amines and ether-amines in which there are more fluorines than hydrogens, no runs of hydrogen longer than two (CH-CH), no -CH₂CH₃ radicals are present, no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no C-H bonds immediately adjacent to either nitrogen or oxygen;

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x) cyclic, linear, or branched and hydrofluorocarbon amines, and ether-amines in which there are more fluorines than hydrogens, no runs of hydrogen longer than two (CH-CH), no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF-CF), and no C-H bonds immediately adjacent to either nitrogen or oxygen;

and,

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- xi) $XR_f^a(OR_f^b)w(OR_f^c)_x(OR_f^d)_yOR_f^eY$ where X = H or F; R_f^a and R_f^e are independently a linear or branched fluoroalkyl radical of 1 to 3 carbons; R_f^b , R_f^c , and R_f^d are linear or branched fluoroalkenyl radicals of 1-3 carbons; and w, x, and y = 0 to 10 with the proviso that w+x+y > 2.
- 2. The composition of Claim 1 wherein said one or more compounds are selected from the group consisting of, , $C_nF_{2n+1}CFHCFHC_mF_{2m+1} \text{ where n equals 1 to 4; and m equals 1 to 4 and } HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H \text{ where n + m = 1 to 8.}$
 - 3 The composition of Claim 1 wherein said one or more compounds are selected from the group consisting of $CF_3CFHCFHCF_2CF_3$, $CF_3CH_2CF_2CH_3$ and $HCF_2O(CF_2O)_n(CF_2CF_2O)_mCF_2H$ where n+m=2 to 6.
 - 4. The composition of Claim 1 wherein said one or more compounds are selected from the group of fluoroethers consisting of a cyclic perfluoroaminoethers comprising one or more linear perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; an acyclic perfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; and, an acyclic hydrofluorocarbonfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons and wherein said acyclic hydrofluorocarbonfluoroether there are no geminal or adjacent hydrogens.
 - 5. The composition of Claim 4 wherein the water vapor and oxygen concentrations are each less than 5 parts per million by weight of the fluoroether.

- 6. The composition of Claim 5 wherein the water vapor and oxygen concentrations are each less than 1 part per million by weight of the fluoroether.
- 7. The compositions of Claims 4, 5 or 6 wherein said one or more compounds is perfluoro-N-methylmorpholine.
- 8. The compositions of Claims 4, 5 or 6 wherein said one or more compounds is $CF_3(CF_2)_2OCF(CF_3)CF_2OCF_2CF_3$, $CF_3O(CF_2O)_nCF_3$ where n is 3 to 5, or $CF_3O(CF_2O)_xCF_2CF_2O(CF_2O)_yCF_3$ where x and y independently are 2 or 3.
- 9. The compositions of Claims 4, 5 or 6 wherein said one or more compounds is $CF_3CF_2CF_2OCF(CF_3)CF_2OCFHCF_3$ or $CF_3O(CF_2O)_nCF_2H$ wherein n = 3 to 5.
 - 10. The composition of Claim 1 wherein at least one of said one or more compounds is a liquid.
- 11. A process for preparing an organic composition characterized by an absorbance/micrometer of < 1 at wavelengths from 140 to 260 nm, comprising subjecting to treatment with one or more means for extracting one or more photochemically active species, a compound selected from the group consisting of:
 - cyclic, linear, or branched hydrofluorocarbons having 2 to 10 carbon atoms in which there are more fluorines than hydrogen, no runs of adjacent C-H bonds longer than two (CH-CH), no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no -CH₂CH₃ radicals;
 - ii) X-R_f^a[OR_f^b]nOR_f^cY wherein X and Y can be hydrogen or fluorine and R_f^a, R_f^b, and R_f^c are 1 to 3 carbon fluorocarbon radicals, linear or branched

in which there are more fluorines than hydrogens, no runs of adjacent C-H bonds longer than two are present, no -CH₂CH₃ radicals are present and no sequences with hydrogen on both sides of an ether oxygen (CH-O-CH) are present;

- iii) C_nF_{2n-v+2}H_v wherein n = 2 to 10, v<n+1, no runs of adjacent C-H bonds longer than two are present, no runs of adjacent C-F bonds longer than 6 are present, and no CH₂CH₃ radicals are present;
- iv) $C_nF_{2n+1}CFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4;

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- v) CF₃CH₂CF₂CH₃;
- vi) $F[CF(CF_3)CF_2O]_nCFHCF_3$ where n = 1 to 5;
- vii) $F[CF(CF_3)CF_2O]_nCF_2CF_3$ where n = 1 to 5;
- viii) $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8;
- ix) cyclic, linear, or branched hydrofluorocarbon amines and ether-amines in which there are more fluorines than hydrogens, no runs of hydrogen longer than two (CH-CH), no -CH₂CH₃ radicals are present and no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no C-H bonds immediately adjacent to either nitrogen or oxygen;

and.

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x) $XR_f^a(OR_f^b)w(OR_f^c)_x(OR_f^d)_yOR_f^eY$ where X = H or F; R_f^a and R_f^e are independently a linear or branched fluoroalkyl radical of 1 to 3 carbons; R_f^b , R_f^c , and R_f^d are linear or branched fluoroalkenyl radicals of 1-3 carbons; and w, x, and y = 0 to 10 with the proviso that w+x+y > 2;

at least until the desired concentration of said one or more photochemically active species is achieved.

- 12. The process of Claim 11 wherein said one or more photochemically active species comprises moisture and oxygen and the desired concentrations are below 20 parts per million and below 90 parts per million, respectively.
- 13. The process of Claim 11 wherein said one or more compounds are selected from the group consisting of $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4 and $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8.
- 14. The process of Claim 13 wherein said one or more compounds are selected from the group consisting of CF₃CFHCFHCF₂CF₃, CF₃CH₂CF₂CH₃ and HCF₂O(CF₂O)_n(CF₂CF₂O)_mCF₂H where n+m=2 to 6.
 - 15. The process of Claim 11 wherein said one or more compounds are selected from the group of fluoroethers consisting of a cyclic perfluoroaminoethers comprising one or more linear perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; an acyclic perfluoroether having linear or branched

perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; and, an acyclic

hydrofluorocarbonfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons and wherein said acyclic

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hydrofluorocarbonfluoroether there are no geminal or adjacent hydrogens.

- 16. The process of Claim 15 wherein the water vapor and oxygen concentrations are each less than 5 parts per million by weight of the fluoroether.
- 17. The process of Claim 16 wherein the water vapor and oxygen concentrations are each less than 1 part per million by weight of the fluoroether.
 - 18. The process of Claims 15, 16 or 17 wherein said one or more compounds is perfluoro-N-methylmorpholine.
- 19. The process of Claims 15, 16, or 17 wherein said one or more compounds is CF₃(CF₂)₂OCF(CF₃)CF₂OCF₂CF₃, CF₃O(CF₂)_nOCF₃ where n is 3 to 5, or CF₃O(CF₂)_xCF₂CF₂O(CF₂O)_yCF₃ where x and y independently are 2 or 3.
 - 20. The process of Claims 15, 16, or 17 wherein said one or more compounds is $CF_3CF_2CF_2OCF(CF_3)CF_2OCFHCF_3$ or $CF_3O(CF_2O)_nCF_2H$ wherein n = 3 to 5.
 - 21. The process of Claim 11 wherein at least one of said one or more compounds is a liquid.
 - 22. The process of Claim 12 wherein said means comprises subjecting said compound to freeze-thaw fractional distillation and contacting said compound with molecular sieves.
 - 23. The process of Claim 1 wherein said means comprises sparging with an inert gas.
 - 24. The process of Claim 12 wherein said means comprises contacting said compound with molecular sieves and sparging said compound with an inert gas.
 - 25. A process for forming an optical image on a substrate, the process comprising:
 - a) radiating electromagnetic radiation from source capable of radiating electromagnetic radiation in the range of 140-260 nm;

b) receiving said radiation on a target disposed to receive at least a portion of said radiation; and

causing at least a portion of said radiation to traverse one or more optically transparent compositions disposed between said radiation source and said target, at least one of said optically transparent compositions comprising a composition comprising less than 20 parts per million of water, less than 90 parts per million of oxygen, and one or more compounds selected from the group consisting of:

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 cyclic, linear, or branched hydrofluorocarbons having 2 to 10 carbon atoms in which there are more fluorines than hydrogen, no runs of adjacent C-H bonds longer than two (CH-CH), no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no -CH₂CH₃ radicals;

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 ii) X-R_f^a[OR_f^b]nOR_f^cY wherein X and Y can be hydrogen or fluorine and R_f^a, R_f^b, and R_f^c are 1 to 3 carbon fluorocarbon radicals, linear or branched

in which there are more fluorines than hydrogens, no runs of adjacent C-H bonds longer than two are present, no -CH₂CH₃ radicals are present and no sequences with hydrogen on both sides of an ether oxygen (CH-O-CH) are present;

iii) C_nF_{2n-v+2}H_v wherein n = 2 to 10, v<n+1, no runs of adjacent C-H bonds longer than two are present, no runs of adjacent C-F bonds longer than 6 are present, and no CH₂CH₃ radicals are present;

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- iv) $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4;
- v) CF₃CH₂CF₂CH₃;
- vi) $F[CF(CF_3)CF_2O]_nCFHCF_3$ where n = 1 to 5;
- vii) $F[CF(CF_3)CF_2O]_nCF_2CF_3$ where n = 1 to 5;

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- viii) $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8;
- ix) cyclic, linear, or branched hydrofluorocarbon amines and ether-amines in which there are more fluorines than hydrogens, no runs of hydrogen longer than two (CH-CH), no -CH₂CH₃ radicals are present and no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no C-H bonds immediately adjacent to either nitrogen or oxygen;

and.

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- x) $XR_f^a(OR_f^b)w(OR_f^c)_x(OR_f^d)_yOR_f^eY$ where X = H or F; R_f^a and R_f^e are independently a linear or branched fluoroalkyl radical of 1 to 3 carbons; R_f^b , R_f^c , and R_f^d are linear or branched fluoroalkenyl radicals of 1-3 carbons; and w, x, and y = 0 to 10 with the proviso that w+x+y > 2.
- 26. The process of Claim 25 wherein said one or more compounds are selected from the group consisting of $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4 and $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8.
- 27. The process of Claim 26 wherein said one or more compounds are selected from the group consisting of $CF_3CFHCFHCF_2CF_3$, $CF_3CH_2CF_2CH_3$ and $HCF_2O(CF_2O)_n(CF_2CF_2O)_mCF_2H$ where n+m=2 to 6.
- 28. The process of Claim 25 wherein said one or more compounds are selected from the group of fluoroethers consisting of a cyclic perfluoroaminoethers comprising one or more linear perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; an acyclic perfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; and, an acyclic hydrofluorocarbonfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons and wherein said acyclic hydrofluorocarbonfluoroether there are no geminal or adjacent hydrogens.
 - 29. The process of Claim 28 wherein the water vapor and oxygen concentrations are each less than 5 parts per million by weight of the fluoroether.
- 30. The process of Claim 29 wherein the water vapor and oxygen concentrations are each less than 1 part per million by weight of the fluoroether.
 - 31. The process of Claims 28, 29, or 30 wherein said one or more compounds is perfluoro-N-methylmorpholine.
- 35 32. The process of Claims 28, 29, or 30 wherein said one or more compounds is CF₃(CF₂)₂OCF(CF₃)CF₂OCF₂CF₃, CF₃O(CF₂)_nOCF₃ where

n is 3 to 5, or $CF_3O(CF_2)_xCF_2CF_2O(CF_2O)_yCF_3$ where x and y independently are 2 or 3.

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- 33. The process of Claims 28, 29, or 30 wherein said one or more compounds is $CF_3CF_2CF_2OCF(CF_3)CF_2OCFHCF_3$ or $CF_3O(CF_2O)_nCF_2H$ wherein n = 3 to 5. .
- 34. The process of Claim 25 wherein at least one of said one or more compounds is a liquid.
- 35. The process of Claims 25, 28, 29, 30, 31, 32, or 33 wherein said at least one of said radiation source and said target are immersed in said optically transparent composition.
- 36. The process of Claims 25, 28, 29, 30, 31, 32, or 33 wherein both radiation source and target are immersed in said optically transparent composition.
- 37. A process for forming an optical image on a substrate, the process comprising:

radiating electromagnetic radiation from a source capable of radiating electromagnetic radiation in the range of 140-260 nm; receiving said radiation on a target disposed to receive at least a portion of said radiation; and

wherein one or more optically transparent compositions is disposed between said radiation source and said target, at least one of said optically transparent compositions comprising a composition treated with one or more means for extracting one or more photochemically active species, the composition comprising one or more compounds selected from the group consisting of:

- i) cyclic, linear, or branched hydrofluorocarbons having 2 to 10 carbon atoms in which there are more fluorines than hydrogen, no runs of adjacent C-H bonds longer than two (CH-CH), no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no -CH₂CH₃ radicals;
- ii) X-R_f^a[OR_f^b]nOR_f^cY wherein X and Y can be hydrogen or fluorine and R_f^a, R_f^b, and R_f^c are 1 to 3 carbon fluorocarbon radicals, linear or branched

in which there are more fluorines than hydrogens, no runs of adjacent C-H bonds longer than two are present, no -CH₂CH₃ radicals are present and no sequences with hydrogen on both sides of an ether oxygen (CH-O-CH) are present;

- iii) C_nF_{2n-y+2}H_v wherein n = 2 to 10, v<n+1, no runs of adjacent
 C-H bonds longer than two are present, no runs of adjacent C-F
 bonds longer than 6 are present, and no CH₂CH₃ radicals are present;
- 5 iv) $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4;
 - v) CF₃CH₂CF₂CH₃;

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- vi) $F[CF(CF_3)CF_2O]_nCFHCF_3$ where n = 1 to 5;
- vii) $F[CF(CF_3)CF_2O]_nCF_2CF_3$ where n = 1 to 5;
- viii) $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8;
 - ix) cyclic, linear, or branched hydrofluorocarbon amines and etheramines in which there are more fluorines than hydrogens, no runs of hydrogen longer than two (CH-CH), no -CH₂CH₃ radicals are present and no runs of adjacent C-F bonds longer than 6 (CF-CF-CF-CF-CF), and no C-H bonds immediately adjacent to either nitrogen or oxygen; and,
 - x) $XR_f^a(OR_f^b)w(OR_f^c)_x(OR_f^d)_yOR_f^eY$ where X = H or F; R_f^a and R_f^e are independently a linear or branched fluoroalkyl radical of 1 to 3 carbons; R_f^b , R_f^c , and R_f^d are linear or branched fluoroalkenyl radicals of 1-3 carbons; and w, x, and y = 0 to 10 with the proviso that w+x+y>2.
 - 38. The process of Claim 37 wherein the one or more photochemically active species comprise moisture and oxygen and the desired concentrations are below 20 parts per million and below 90 parts per million, respectively.
 - 39. The process of Claim 37 wherein said one or more compounds are selected from the group consisting of $C_nF_{2n+1}CFHCFHC_mF_{2m+1}$ where n equals 1 to 4; and m equals 1 to 4 and $HCF_2(OCF_2)_n(OCF_2CF_2)_mOCF_2H$ where n + m = 1 to 8.
 - 40. The process of Claim 39 wherein said one or more compounds are selected from the group consisting of $CF_3CFHCFHCF_2CF_3$, $CF_3CH_2CF_2CH_3$ and $HCF_2O(CF_2O)_n(CF_2CF_2O)_mCF_2H$ where n+m=2 to 6.
 - 41. The process of Claim 37 wherein said one or more compounds are selected from the group of fluoroethers consisting of a cyclic

perfluoroaminoethers comprising one or more linear perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; an acyclic perfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; and, an acyclic hydrofluorocarbonfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons and wherein said acyclic hydrofluorocarbonfluoroether there are no geminal or adjacent hydrogens.

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- 42. The process of Claim 41 wherein the water vapor and oxygen concentrations are each less than 5 parts per million by weight of the fluoroether.
- 43. The process of Claim 42 wherein the water vapor and oxygen concentrations are each less than 1 part per million by weight of the fluoroether.
- 44. The process of Claims 41, 42, or 43 wherein said one or more compounds is perfluoro-N-methylmorpholine.
- 45. The process of Claims 41, 42, or 43 wherein said one or more compounds is $CF_3(CF_2)_2OCF(CF_3)CF_2OCF_2CF_3$, $CF_3O(CF_2)_nOCF_3$ where n is 3 to 5, or $CF_3O(CF_2)_xCF_2CF_2O(CF_2O)_yCF_3$ where x and y independently are 2 or 3.
- 46. The process of Claims 41, 42, or 43wherein said one or more compounds is $CF_3CF_2CF_2OCF(CF_3)CF_2OCFHCF_3$ or $CF_3O(CF_2O)_nCF_2H$ wherein n = 3 to 5.
- 47. The process of Claim 37 wherein at least one of said one or more compounds is a liquid.
 - 48. The process of Claim 38 wherein said means comprises subjecting said compound to freeze-thaw fractional distillation and contacting said compound with molecular sieves.
- 30 49. The process of Claim 38 wherein said means comprises sparging with an inert gas.
 - 50. The process of Claim 39 wherein said means comprises contacting said compound with molecular sieves and sparging said compound with an inert gas.
- 51. The process of Claims 37, 41, 42, 43, 44, 45, or 46 wherein said at least one of said radiation source and said target are immersed in said optically transparent composition.

- 52. The process of Claims 37, 41, 42, 43, 44, 45, or 46 wherein both radiation source and target are immersed in said optically transparent composition.
- 53. A process for forming an optical image on a substrate, the process comprising:

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radiating electromagnetic radiation from a source capable of radiating electromagnetic radiation in the range of 140-260 nm; receiving said radiation on a target disposed to receive at least a portion of said radiation; and

- wherein at least one of said target or said source is immersed in one or more optically transparent fluorinated organic liquids characterized by an absorbance per centimeter of < 5 disposed between said radiation source and said target, at least one of said optically transparent fluorinated organic compounds having been subject to treatment with one or more means for extracting one or more photochemically active species.
 - 54. The process of Claim 53 wherein said one or more photochemically active species comprises moisture and oxygen and the concentrations are below 5 parts per million each.
 - 55. The process of Claim 54 wherein the concentrations are below1 part per million each.
 - 56. The process of Claims 54 or 55 wherein said optically transparent fluorinated liquid is selected from the group of fluoroethers consisting of a cyclic perfluoroaminoethers comprising one or more linear perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; an acyclic perfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons; and, an acyclic hydrofluorocarbonfluoroether having linear or branched perfluoroalkyl radicals, perfluoroalkenyl radicals, or a combination thereof, said radicals having 1 to 6 carbons and wherein said acyclic hydrofluorocarbonfluoroether there are no geminal or adjacent hydrogens.
 - 57. The compositions of Claims 54, 55, or 56 wherein said one or more compounds is perfluoro-N-methylmorpholine.
 - 58. The compositions of Claims 54, 55, or 56 wherein said one or more compounds is $CF_3(CF_2)_2OCF(CF_3)CF_2OCF_2CF_3$, $CF_3O(CF_2)_nOCF_3$ where n is 3 to 5, or $CF_3O(CF_2)_xCF_2CF_2O(CF_2O)_yCF_3$ where x and y independently are 2 or 3.

- 59. The compositions of Claims 54, 55, or 56 wherein said one or more compounds is $CF_3CF_2CF_2OCF(CF_3)CF_2OCFHCF_3$ or $CF_3O(CF_2O)_nCF_2H$ wherein n = 3 to 5.
- 60. An end use selected from the group consisting of an optical couplant, a liquid lens, a pellicle film, an immersion fluid, an optical cement and a polymer comprising the composition of Claim 1.